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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,875	01/30/2001	Yoshitomo Kumagai	1081.1107/JDH	9019
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STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				KANG, INSUN
			ART UNIT	PAPER NUMBER
			2193	

DATE MAILED: 11/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/771,875	KUMAGAI, YOSHITOMO
	<b>Examiner</b>	<b>Art Unit</b>
	Insun Kang	2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 9/18/2006.  
 2a) This action is FINAL.                  2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,2,4-7,9-11 and 20-29 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1, 2, 4-7, 9-11, and 20-29 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1)  Notice of References Cited (PTO-892)  
 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3)  Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_

4)  Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_  
 5)  Notice of Informal Patent Application  
 6)  Other: \_\_\_\_\_

## DETAILED ACTION

1. This action is in response to the amendment filed 9/18/2006.
2. As per applicant's request, claims 1, 6, 11, 20, 23, and 26-28 have been amended and claim 29 has been added. Claims 1, 2, 4-7, 9-11, and 20-29 are pending in the application.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 2, 4- 6, 7, 9-11, and 20-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US Patent 5,956,029), hereinafter referred to as "Okada," in view of Blanton et al. ("Performance of Windows NT Porting Environments," IEEE, 3/1999) hereinafter referred to as "Blanton."

Per claim 1:

Okada discloses:

- displaying a menu status by using an origin GUI definition file for the application in said original operating system environment (i.e. "The picture information ... is triggered by the event from the event acquiring section ... to acquire picture information constituted by logic structure information indicating the configurations of the window displayed on the picture and interactive components such as a menu, buttons, and the like on the window, layout information indicating the positions and

sizes of the interactive components, and attribute information about the captions (item names) and focus states of the interactive components... The picture information ... stores the acquired information in the picture information storage section," col. 4, lines 43-64). See also FIGS. 7A and 7B showing the display picture and the picture information displayed.

- creating a target GUI definition file for the application in said target operating system environment, said original and target operating systems providing different platforms ("When the picture information is acquired, the target point extracting section 113 refers to the target point information in the target point information storage section 114 (step S305) and extracts target point picture information from the picture information stored in the picture information storage section 112," col. 4, lines 51-67, col. 5, lines 1-14; "a user interface conversion method of converting a picture interface provided by an application program running on an operating system having a graphical user interface to generate and provide a new picture interface, comprising the steps of acquiring picture information of the application program in response to, as a trigger, a change in the picture provided by the application program, determining a target point in the acquired picture information, generating converted picture information from the determined target point by referring to conversion template information, and displaying a converted picture in accordance with the generated converted picture information," col 2, lines 32-45; see also col 10, lines 47-65)

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- adding GUI information of a menu associated with the status displayed to the target GUI definition file, where the target GUI definition file is used to display the menu in said target operating system environment by using the GUI definition file ("When the above conversion is complete, the converted interface control executing section 241 of the converted interface control section 117 in FIG. 5 displays the converted picture on the display of the output unit 104 on the basis of the converted picture information in the converted picture information storage section 116," col 6, lines 18-44).

Okada does not explicitly teach transferring the application from the original operating system environment to the target operating system environment and using the application within the target operating system environment. However, Blanton teaches that Windows as the original operating system and UNIX as the target operating system where porting is expected to be performed were well-known in the art of software development and distribution at the time applicant's invention was made ("A number of software products provide development and operational environments to facilitate the porting of UNIX applications to Windows NT...to minimize the amount of code rewrite for the ported application," abstract).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Okada to transfer the converted picture that is "in accordance with different operation environments and a different users (col. 1 lines 5-17)" so that the GUI application created using Motif library, for example, in UNIX system can be seamlessly used in WINDOWS system. The modification would be obvious because

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one having ordinary skill in the art would be motivated to "minimize the amount of code rewrite for the ported [UNIX] application (abstract)" in Windows system as suggested by Blanton.

Per claim 2:

The rejection of claim 1 is incorporated, and further, Okada teaches:

-rewriting an interface layer of the application in said original operating system environment so that said target GUI definition file is read in said target operating system environment ("the component replacement information in the component replacement information storage section 224, and the virtual component addition information in the virtual component addition information storage section 226 to perform information replacement under the control of the converted interface generation control section 201," col 5, lines 15-43; "a user interface conversion method and apparatus which extract only necessary information from original picture information and automatically generating a converted picture without changing an existing application program and requiring the producer of pictures to generate all picture data again," col 2, lines 1-10; see also col 4, lines 10-16) as claimed.

Per claim 4:

The rejection of claim 1 is incorporated, and further, Okada teaches:

- sequentially searching from a parent window to a sub-window of said menu ("When the picture information is acquired, the target point extracting section 113 refers to the target point information in the target point information storage section 114 (step

S305) and extracts target point picture information from the picture information stored in the picture information storage section 112 (step S306). Target point information as reference information designates the sub-tree structure of target interactive components from the tree structure of the picture information. For example, a target application window, a current window, a focused interactive component, and the like can be designated," col 4, lines 51-64; See also Fig 7A-B, Fig 8) and fetching a position and a size of each window in said displayed status ("The stored converted picture information has a tree structure constituted by logic structure information indicating the configurations of the window displayed on the converted picture and interactive components such as a menu and buttons on the window, layout information indicating the positions and sizes of the interactive components, attribute information about the captions (item names) and focus states of the interactive components, and information about links between the interactive components in the picture information and corresponding event," col 5, lines 44-57; col 4, lines 51-64),

- creating the target GUI definition file comprises outputting said fetched position and size of each window and creating the target GUI definition file ("When the above conversion is complete, the converted interface control executing section 241 of the converted interface control section 117 in FIG. 5 displays the converted picture on the display of the output unit 104 on the basis of the converted picture information in the converted picture information storage section 116 (step S312)," col 6, lines 18-44; see also col 7, lines 50-60; col 5, lines 23-57) as claimed.

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Per claim 5:

Blanton discloses that the original operating system environment is a UNIX operating system and the different operating system environment is a Windows operating system ("A number of software products provide development and operational environments to facilitate the porting of UNIX applications to Windows NT...to minimize the amount of code rewrite for the ported application," abstract).

Regarding claims 6, 7, 9, and 10, they are the system versions of claims 1, 2, 4, and 5 respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1, 2, 4, and 5 above.

Regarding claim 11, it is the storage medium version of claims 1 and 6, respectively, and is rejected for the same reasons set forth in connection with the rejection of claims 1 and 6 above.

Per claim 23:

Okada discloses:

-a GUI definition file for said application ("The picture information ... is triggered by the event from the event acquiring section ... to acquire picture information constituted by logic structure information indicating the configurations of the window displayed on the picture and interactive components such as a menu, buttons, and the like on the window, layout information indicating the positions and sizes of the interactive components, and attribute information about the captions (item names) and focus states of the interactive components... The picture information ... stores the acquired information in the picture information storage section," col 4, lines 43-64);-a display

device ("displaying a converted picture in accordance with the generated converted picture information," col. 2, lines 35-45); a creating means for rewriting a GUI information of a GUI definition file for the application of said original operating system environment to a target GUI information of a GUI definition file for the application in said target operating system environment so as to display a created GUI image in said target operating system environment ("When the above conversion is complete, the converted interface control executing section 241 of the converted interface control section 117 in FIG. 5 displays the converted picture on the display of the output unit 104 on the basis of the converted picture information in the converted picture information storage section 116," col 6, lines 18-44) for replacing an original operating system dependent portion of an interface layer of the application in said original operating system environment providing the first platform with a target operating system dependent portion of an interface layer of the application in said target operating system environment providing the second platform to create the application of the target operating system environment ("a user interface conversion method and apparatus which extract only necessary information from original picture information and automatically generating a converted picture without changing an existing application program and requiring the producer of pictures to generate all picture data again," col 2, lines 1-10; see also col 4, lines 10-16)

Okada does not explicitly teach transferring the application from the original operating system environment to the target operating system environment. However, Blanton teaches that Windows as the original operating system and UNIX as the target operating system where porting is expected to be performed was well-known in the art

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of software development and distribution at the time applicant's invention was made ("A number of software products provide development and operational environments to facilitate the porting of UNIX applications to Windows NT...to minimize the amount of code rewrite for the ported application," abstract). Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Okada to transfer the converted picture that is "in accordance with different operation environments and a different users (col. 1 lines 5-17)" so that the GUI application created using Motif library, for example, in UNIX system can be seamlessly used in WINDOWS system. The modification would be obvious because one having ordinary skill in the art would be motivated to "minimize the amount of code rewrite for the ported [UNIX] application (abstract)" in Windows system as suggested by Blanton.

Per claim 24:

The rejection of claim 23 is incorporated, and further, Okada teaches: the operating system dependent portions that draw GUI images in a window of a display according to an image instruction of the application by using corresponding GUI definition file (col 5, lines 15-43; col 2, lines 1-10; see also col 4, lines 10-16) as claimed.

Per claim 25:

The rejection of claim 24 is incorporated, and further, Okada teaches:  
-said creating means creates said target GUI definition file from the GUI definition file such that a GUI tool of the target operating system environment displays the GUI images in a window of a display according to a processing of the operating system

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dependent portion used in said target GUI definition file (col. 5, lines 15-43; col 2, lines 1-10; see also col. 4, lines 10-16) as claimed.

Per claims 20-22, they are the method versions of claims 23-25, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 23-25 above.

Per claims 26-28, they are another method versions of claims 1-4, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1-4 above.

***Response to Arguments***

5. Applicant's arguments filed 9/18/2006 have been fully considered but they are not persuasive.

Per claims 1, 6, 11, 20, 23, and 26-29:

The applicant states that Okada does not teach or suggest displaying a menu using the GUI definition file.

In response, Okada clearly states that the picture conversion is interactively performed while referring to the original application picture (i.e. col. 2 lines 20-25). The picture information acquiring section is triggered to acquire picture information constituted by configuration information of the window displayed on the picture and interactive components such as a menu, layout information of the menu including size and position of the menu and so on. The acquiring section stores the picture information in the picture information storage section (i.e. 4 lines 51-67). The displayed picture in Fig 7A is based on the picture information in Fig 7B. In order to display the picture, the picture information has to be known first. Therefore, applicant's argument

that Okada does not teach or suggest displaying a menu using the GUI definition file is not persuasive.

The applicant states that there is no motivation to combine Okada with Blanton and Blanton only discusses recompiling the UNIX code in a UNIX like development environment on the Windows NT platform and does not teach or suggest transferring the application.

In response, as previously stated, although Okada does not explicitly teach actually transferring the application from the original operating system environment to the target operating system environment, Okada's conversion method is "in accordance with different operation environments and a different users...without changing an original application program (col. 1 lines 5-17)." Okada's converted picture for a target point is to be ported (i.e. col. 1 lines 5-17, 37-45; col. 2 lines 31-45). Okada is well capable of porting the converted picture to the target environment. Further, Blanton clearly discloses porting Unix applications to Windows NT throughout the disclosure (i.e. see fig 3). Porting is transferring. Thus, all the converting aspects described in Okada do fulfill the features brought out in applicant's claims, given that the transferring aspect of Blanton is combined into them, for which the motivation is as given above. Therefore, applicant's argument above is not persuasive.

The applicant states that Okada and Blanton, alone or in combination, do not teach or suggest adding GUI information determined based on a comparison of the

origin GUI definition file used to display the menu to the target definition file created for transferring the application to the target operating system environment.

In response, in Okada, when the picture information is acquired, the target point extracting section 113 refers to the target point information in the target point information storage section 114 and extracts target point picture information from the picture information stored in the picture information storage section 112 (i.e. fig 7-8). The "only necessary information from original picture information" for the conversion for the designated target point is extracted from the comparison of the original picture information and the target point picture information (i.e. col. 2 lines 1-16). On the basis of the extracted original picture information and the target point picture information, picture conversion for the target point is realized. Therefore, the applicant's argument above is not persuasive.

Per claims 4 and 9:

The applicant states that Okada and Blanton alone or in combination, do not teach or suggest displaying the menu status by sequentially searching from a parent window to a sub-window of said menu and fetching a position and a size of each window in said displayed status.

In response, Okada in Fig. 7-9 shows the picture information organized in a tree structure extracted from the displayed picture. The menu layout information such as position and size are fetched from the tree-structured windows.

### ***Conclusion***

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Insun Kang whose telephone number is 571-272-3724. The examiner can normally be reached on M-R 6:30-5 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MENG AI AN can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

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would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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